## **AMENDMENT**

Please replace all prior versions and listings of claims with the following listing of claims.

## **LISTING OF CLAIMS:**

1. (Currently Amended) A method of monitoring for detecting and preventing attacks directed at a target system network communications for an indication of an attack and disabling the network communications upon an existence of a predetermined condition, comprising:

receiving one or more packets originating from a source system, the received packets directed to the target system;

monitoring data packets received at a target system in real time;

monitoring identifying the received data packets that are to identify one or more of the packets that include information associated with signatures of the a signature of an attack directed at the target system;

determining a severity of the attack; and

blocking the identified packets from being transmitted to the target system; and

blocking one or more subsequently received the data packets from entering being transmitted to the target system when the a severity of the attack exceeds a predetermined threshold, the subsequently blocked packets including one or more of packets originating from the source system or directed to the target system.

2. (Currently Amended) The method according to claim 1, wherein monitoring the data packets includes determining received at the target-system are monitored based on at least one of identifying information and or a type of communication associated with the monitored packets.

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3. (Currently Amended) The method according to claim 2, wherein the identifying

information includes at least one of a source an Internet Protocol address, a source port

number, a destination Internet Protocol address, or a destination and a port number.

4. (Currently Amended) The method according to claim 2, wherein the type of

communication includes at least one of [[a]] File Transfer Protocol, [[a]] Simple Mail Transfer

Protocol, Telnet, Domain Name System, Windows Internet Name System, HyperText Transfer

Protocol, Traceroute, instant messaging, and or chat.

5. (Currently Amended) The method according to claim 1, wherein monitoring the data

packets includes received at the target system are monitored using Transmission Control

Protocol/Internet Protocol at an application layer.

6. (Currently Amended) The method according to claim 1, further comprising determining

wherein the severity of the attack is determined based on at least one of a frequency of the

attack, a type of communication, a change in an amount of bandwidth, and or a volume of the

received data packets.

7. (Currently Amended) The method according to claim 1, wherein blocking the data

packets from being transmitted to are blocked from entering the target system by includes

instructing at least one of a router, a hub, a server, and or a firewall to disable a

communication channel.

8. (Currently Amended) The method according to claim 1, further comprising the step of

notifying an attacking the source system of a detection of that the attack has been detected

and that of blocking the data packets subsequently sent from the attacking source system will

be blocked.

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9. (Currently Amended) The method according to claim 1, wherein the <u>subsequently</u>

received data packets are blocked from entering being transmitted to the target system for a

predetermined amount of time.

10. (Currently Amended) A system for protecting a computer network, comprising at least

one computer readable medium associated with a device coupled to the network, the

computer readable medium including:

a detection module that receives attack signatures associated with attacks directed at a

target device data packets and monitors received data packets to identify one or more of the

packets that include information associated with for the attack signatures;

a scanning module that evaluates the received data identified packets having the attack

signatures and determines to determine a severity of an attack on the computer network

target device; and

a blocking module that identifies a source of the attack identified packets, and instructs

at least one switching device to block the data identified packets from being transmitted to the

target device, and instructs the at least one device to block one or more subsequently received

packets from being transmitted to the target device when associated with the attack signatures

if the severity of the attack exceeds a predetermined threshold, the subsequently blocked

packets including one or more of packets originating from the source or directed to the target

device.

11. (Currently Amended) The system according to claim 10, wherein the computer

readable medium further includes comprising a log module that is adapted to create creates a

log of the received-data packets identified as including the information associated with having

the attack signatures.

12. (Currently Amended) The system according to claim 10, wherein the detection module

is adapted to monitor monitors the received data packets based on by determining at least one

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of identifying information and or a type of communication associated with the monitored

packets.

13. (Currently Amended) The system according to claim 10, wherein the scanning module

is adapted to determine determines the severity of the attack based on at least one of a

frequency of the attack, a type of communication, a change in an amount of bandwidth, and or

a volume of the received data packets.

14. (Currently Amended) The system according to claim 10, wherein the blocking module

blocks data the packets from being transmitted to the target device entering the computer

network-by instructing at least one of a router, a hub, a server, and or a firewall to disable a

communication channel.

15. (Currently Amended) The system according to claim 14, wherein the blocking module

blocks the data packets from being transmitted to the target device entering the computer

network for a predetermined amount of time.

16. (Currently Amended) A computer readable medium containing computer executable

instructions program product for detecting and preventing attacks directed at a target system

enabling a computer to monitor received data packets and to disable a transmission medium

between a source computer and a destination network upon an existence of a predetermined

condition, the computer executable program product having instructions for enabling the

computer to perform operations comprising operable to:

receive one or more packets originating from a source system, the received packets

directed to the target system;

monitoring data packets received at a destination network;

monitor identifying the received data packets that are to identify one or more of the

packets that include information associated with signatures a signature of an attack directed at

the target system;

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determining a severity of the attack; and

block the identified packets from being transmitted to the target system; and

block one or more subsequently received blocking the data packets from entering being

<u>transmitted to</u> the <u>target system</u> <u>destination network</u> when the <u>a</u> severity of the attack exceeds

a predetermined threshold, the subsequently blocked packets including one or more of packets

originating from the source system or directed to the target system.

17. (Currently Amended) The computer readable medium program-product according to

claim 16, wherein the received data packets are monitored transparently in real time.

18. (Currently Amended) The computer readable medium program-product according to

claim 16, wherein the received data packets are monitored after being stored in a storage

buffer.

19. (Currently Amended) The computer readable medium program-product according to

claim 16, the instructions further operable to determine wherein the severity of the attack is

determined based on at least one of a frequency of the attack, a type of communication, a

change in an amount of bandwidth, and or a volume of the received data packets.

20. (Currently Amended) The computer readable medium program product according to

claim 16, the instructions operable to block wherein the data packets are blocked from being

transmitted to entering the target system by instructing at least one of a router, a hub, a

server, and or a firewall to disable a communication channel.

21. (Currently Amended) The computer readable medium program product according to

claim 16, the instructions further operable to notify the comprising the step of notifying an

attacking source system of a detection of that the attack has been detected and that of

blocking the data packets subsequently sent from the attacking source system will be blocked.

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22. (Currently Amended) The computer readable medium program product according to

claim 16, wherein the instructions operable to block the data packets are blocked from being

transmitted to entering the target system for a predetermined amount of time.

23. (Currently Amended) A computer system configured for detecting and preventing

attacks directed at target devices to monitor data packets received on a transmission medium

for an indication of an attack and to block receipt of the data packets upon an existence of a

predetermined condition, comprising:

at least one terminal device;

an application server that is coupled to the at least one terminal device for processing

requests sent by the at least one terminal device;

at least one a monitoring server that is coupled to a computer network and to the

application server for terminal device, the server operable to monitoring data monitor packets

directed to the terminal device, the monitoring server having one or more modules comprising,

including:

a first detection module that receives attack signatures associated with attacks

directed at the terminal device data packets and monitors received data packets to

identify one or more of the packets that include information associated with for the

attack signatures;

a second scanning module that evaluates the received data packets having the

attack signatures and determines to determine a severity of an attack on the computer

system terminal device; and

a third blocking module that identifies a source of the attack identified packets,

and instructs at least one switching device to block the data identified packets from

being transmitted to the terminal device, and instructs the at least one switching device

to block one or more subsequently received packets from being transmitted to the

terminal device when associated with the attack signatures if the severity of the attack

exceeds a predetermined threshold, the subsequently blocked packets including one or

more of packets originating from the source or directed to the terminal device.

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24. (Currently Amended) The computer system according to claim 23, wherein the

monitoring server further comprises includes a fourth log module that creates a log of the

received data packets identified as including the information associated with having the attack

signatures.

25. (Currently Amended) The computer system according to claim 23, further comprising a

database coupled to the monitoring server.

26. (Currently Amended) The computer system according to claim 23, wherein the first

detection module is adapted to monitor monitors the received data packets based on by

determining at least one of identifying information and or a type of communication associated

with the monitored packets.

27. (Currently Amended) The computer system according to claim 23, wherein the third

scanning module is adapted to determine determines the severity of the attack based on at

least one of a frequency of the attack, a type of communication, a change in an amount of

bandwidth, and or a volume of the received data packets.

28. (Currently Amended) The computer system according to claim 23, wherein the fourth

blocking module blocks data packets from being transmitted to the terminal device entering

the computer network by instructing at least one of a router, a hub, a server, and or a firewall

to disable a communication channel.

29. (Currently Amended) The computer system according to claim 23, wherein the fourth

blocking module blocks the data packets from being transmitted to the terminal device

entering the network computer for a predetermined amount of time.

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30. (Currently Amended) The computer system according to claim 23, wherein the monitoring server further operable to issue issues an alert to inform an administrator of the network of the attack on the computer system terminal device.

31. (New) The method according to claim 3, the subsequently blocked packets including packets associated with one or more of the source Internet Protocol address, the source port number, the destination Internet Protocol address, or the destination a port number.